

ANSWERS: Crystal ball questions on Level 3 IUPAC

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| <p style="text-align: center;">3-chlorohexane</p> <pre> CH₃ H Cl H — C — C — C — CH₂ H H H CH₃ </pre> | <p style="text-align: center;">propan-1,2,3-triol or 1,2,3-propantriol</p> <pre> H H H O — C — C — C — O H H O H H H </pre> | <p style="text-align: center;">2-chloro-2-methylpropane</p> <pre> H Cl H H — C — C — C — H H CH₃ H </pre> |
| <p style="text-align: center;">2-amino-3-hydroxypropanoic acid</p> <pre> H H O N — C — C H CH₂ OH OH </pre> | <p style="text-align: center;">1-chloro-3-hydroxypropanone <i>(note: don't write propan-2-one) as the 2 number is unnecessary, being a ketone, the carbonyl group has to be on the middle carbon which is the 2nd carbon atom)</i></p> <pre> OH H — C — H \ / C O / \ H — C — C — H H Cl </pre> | <p style="text-align: center;">3-methylbutyl ethanoate</p> <pre> CH₃ \ CH — CH₂ — CH₂ — O — C(=O) — CH₃ / CH₃ </pre> |
| <p style="text-align: center;">4-bromo-2,2-dimethylbutanal</p> <pre> Br — C — H CH₃ H C — C — C — H H H CH₃ O CH₃ </pre> | <p style="text-align: center;">2-bromo-3-methylbutanoic acid</p> <pre> CH₃ H₃C — C — H H C — Br O = C — OH </pre> | <p style="text-align: center;">2-chloro-2-fluoroethanoyl chloride</p> <pre> F H C — C — Cl O = C — Cl </pre> |